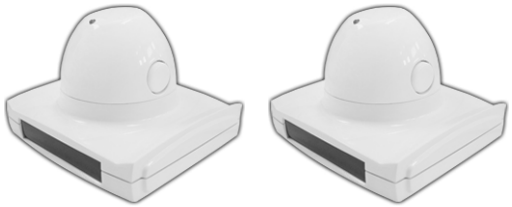
EMPREX™

5.8GHz Wireless AV Sender

AWV699

User's Manual



Overview

The AWV699 AV sender applies advanced 5.8GHz RF wireless technology to link all kinds of Audio and Video sources to TVs and Monitors with vivid video and crystal clear sound without wires or cables. The AWV699 features plug & play design to make the installation extremely easy. The use of 5.8GHz frequency band can avoid interferences in the crowded 2.4GHz frequency band and let you enjoy AV programs free of hassle.

Features

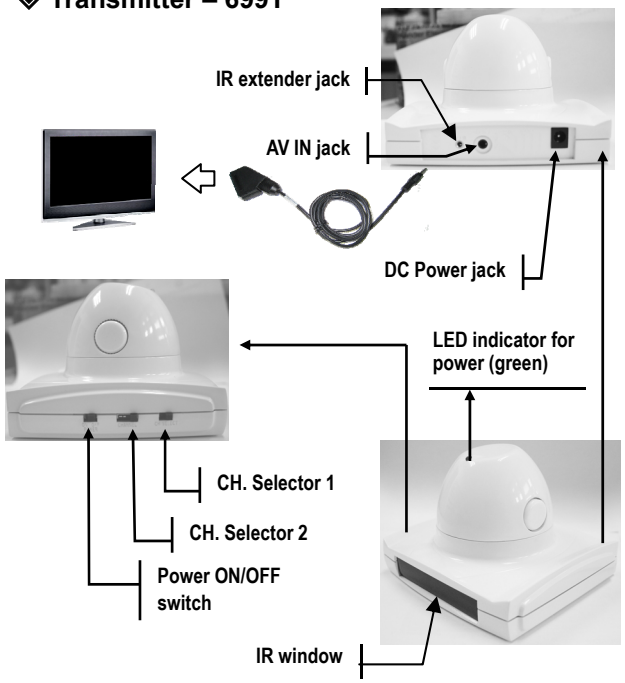
- Worldwide 5.8GHz ISM Band.
- 7 selectable RF channels.
- Transmission distance up to 300 feet.
- Compatible with both NTSC/PAL video formats.
- Comply with CE/FCC regulations.
- Build-in IR remote extender.
- Supply with SCART or RCA AV cables.

Package contents

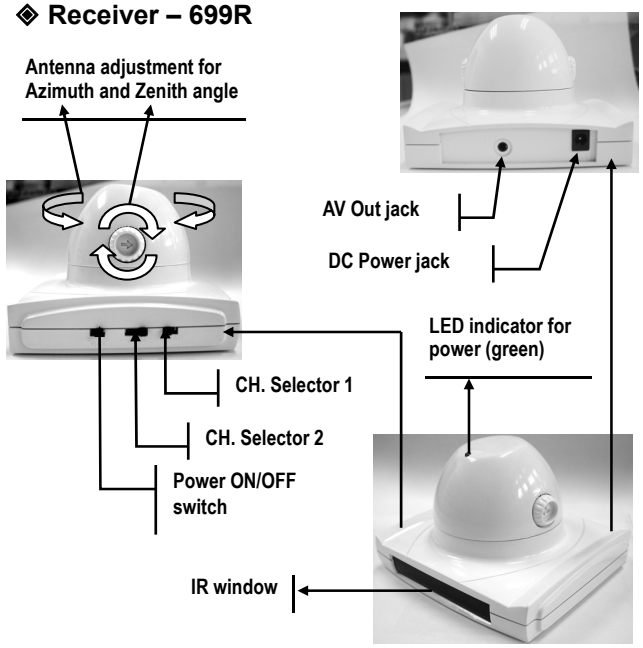
- ◈ AWV699T - Transmitter . . . . . 1 pc
- ◈ AWV699R - Receiver . . . . . 1 pc
- ◈ DC 9V/300mA power adapter . . . . . 2 pcs
- ◈ RCA(or SCART) to Ø3.5mm A/V cable . . . . . 2 pcs
- ◈ IR extender cable for transmitter . . . . . 1 pc
- ◈ User Manual . . . . . 1 pc

Introduction

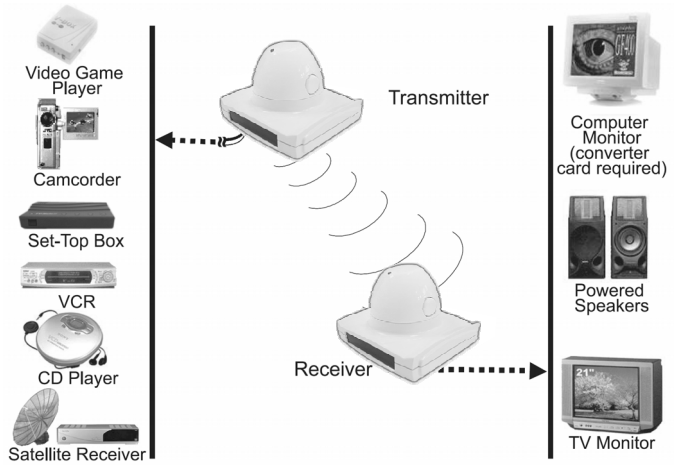
◈ **Transmitter – 699T**



◈ **Receiver – 699R**



Application



Setup & Operation

A. Transmitter

1.) Plug DC plug and AC plug of the DC power adaptor into DC power jack and AC power outlet respectively.
2.) Connect AV IN jack to AV out jack (RCA or SCART connector) of the AV source (e.g. DVD player) with the AV cable "Transmitter".
3.) Face the IR window of transmitter toward IR sensor window of the AV source or plug IR extender cable into IR extender jack and attach the small IR LED emitter of the IR extender cable on the IR sensor window of the AV source.
4.) Turn on the power switch.

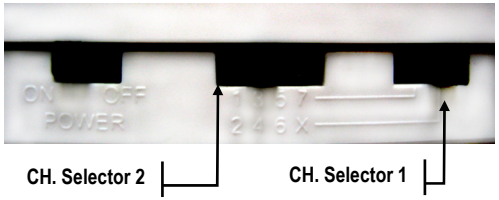
B. Receiver

1.) Plug DC plug and AC plug of the DC power adaptor into DC power jack and AC power outlet respectively.
2.) Connect AV OUT jack to AV IN jack (RCA or SCART connector) of the TV or monitor with the AV cable "Receiver".
3.) Turn on the power switch.

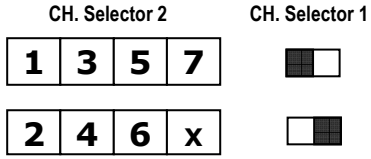
C. Channel selection

1.) There are two channel selection switches, CH Selector 1 and CH Selector 2 shown as below:

Fig.1: Side view of AWV699



2.) Use CH. Selector 1 to select one of the two CH groups, CH (1,3,5,7) or CH (2,4,6).
The corresponding channel numbers of CH. Selector 2 are shown as below:



3.) Use CH. Selector 2 to select the desired channel.

D. Operation

1.) Set the transmitter and receiver at the same channel.
2.) Adjust the azimuth and zenith angles of the receiver antenna so that it faces to the transmitter. Try to avoid transmission paths with any big meter object standing in the way.
3.) Arrange the transmitter so that its IR window faces to the IR sensor of your AV source device or plug the IR extender cable into the IR extender jack and attach its LED emitter on the window of the IR sensor of your AV source device.
4.) Point the Remote Controller of your AV source device toward the IR window of the receiver and use it to start playing your favorite video program.

Trouble Shooting

1. Poor quality

- Multi-path interferences can degrade reception quality. Move the receiver and/or the transmitter slowly around an area within 8~10 inches in diameter or up and down vertically within 8~10 inches can usually improve the quality.
- If big metal obstructions in the transmission path can't be avoid then readjust the azimuth and zenith angles of the receiver antenna to find the best reception orientation and try to shorten the distance between AWV699T and AWV699R as much as possible.
- Try to use a different channel out of the total 7 channels to avoid co-channel or adjacent channel interferences.

2. No pictures and sounds

- Check if the power switches of both AWV699T and AWV699R have been turned on.
- Check if AWV699T and AWV699R are set on the same channel?
- Check if the transmission distance is too far or any obstruction is in between AWV699T and AWV699R. The range is up to 100 meters line-of-sight, but walls, ceilings and metal objects can reduce it.
- Check if the transmitter's AV cable is misused for the receiver and vice versa.

General Specification

Frequency Range	5725 ~ 5875 MHz
Channel selection	PLL Synthesizer 7CH
Video/Audio Mod/Demod. Type.	FM-FM
Video Polarity	Negative
Supply Voltage	DC +9V/300mA
Built-In IR Remote Extender	Yes
Operating Frequency	433.92MHz
IR Extender Mod. /Demod. Type.	ASK
433MHz Antenna Type.	Omni-directional Dipole

Transmitter Specification

Output Power	12dBm ± 2dB (CE) 0dBm ± 1dB (FCC)
Antenna Type.	Dipole Antenna
IR Extender receiver	
Receiving Sensitivity	-90dBm,min
IR Carrier Frequency	38KHz, typ.
IR LED Operation Range	4~5 Meters
IR Extender Half Angle	± 45° Horizontal
External IR LED Port	Ø2.5mm Mono Phone Jack

Receiver Specification

Input Sensitivity	-85dBm, Typ.
Video Output	1VP-P, ±0.2Vp-p
Audio Output (50Hz~15KHz Sine Wave)	2VP-P, typ. (+/-0.2Vp-p).
Audio S/N Ratio (50Hz ~ 15KHz)	50dB, typ. (+/-3dB)
Antenna Type.	Patch Antenna
IR Extender Transmitter	
RF Output Power	6dBm ±2dB (CE) 0dBm ±2dB (FCC)
IR Receiver module carrier freq.	38KHz, typ.
IR Sensor Operation Range	7.5 Meters, min
IR Sensor Half Angle	± 45° Horizontal

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